

Algebra II

1-4
Sums and Differences

Mr. Holm's Rules for Addition

1) When adding two negatives: $\longrightarrow (-7) + (-5)$

a) ignore the negatives 7, 5

b) add these $7+5=12$

c) answer will always be negative $\boxed{-12}$

2) When adding one positive and one negative: $\longrightarrow (-7) + 5$

a) ignore the negatives 7, 5

b) subtract these $7-5=2$

c) answer will be the same sign as the original of the bigger $\boxed{-2}$

Definition of Subtraction -

$$x, y \in \mathbb{R}, \quad x - y = x + (-y)$$

Simplify. (pg 24)

5) $-15 - (-40)$

$$-15 + 40$$

$$25$$

13) $57 - 13 - 46$

$$44 - 46$$

$$-2$$

19) $(-4 + 7 - 10) - [-6 - (-8)]$

$$\begin{aligned} & (3 - 10) - [-6 + 8] \\ & -7 - [2] \\ & -9 \end{aligned}$$

-9
-5
7

Multiply.

23) $4(p - 2q)$
 $4p - 8q$

Simplify.

27) $8c + 2(c + 3)$
 $8c + 2c + 6$
 $10c + 6$

Solve.

- 43) Temperatures on the planet Mars range from -122.2°C to 30.5°C . Find the difference between these two temperatures.

Subtract

$$30.5 - (-122.2)$$

$$30.5 + 122.2$$

$$\boxed{152.7^{\circ}\text{C}}$$

pg 24

2-42 even

44-48 all

P.O.D.